

WHAT IS CLAIMED IS:

1. A multi-channel head position controlling apparatus comprising:

5 a multi-channel head including a plurality of unit recording heads arranged integrally with a predetermined spacing so as to have head gaps of said unit recording heads aligned with one another, said multi-channel head forming a plurality of multi-linear recording tracks on a tape-like
10 recording medium;

 a supporting section for supporting said multi-channel head so as to contact with said tape-like recording medium upon forming an azimuth angle relative to the running direction of said tape-like recording medium in which an
15 alignment direction of said unit recording heads crosses said tape-like recording medium at a slant angle, and making said azimuth angle variable;

 a detecting section for detecting a deviation between a reproducing level of a control record which is previously
20 recorded on said multi-linear recording tracks and a reference level; and

 a displacement control section for controlling displacement of said supporting section and varying said azimuth angle so as to minimize said deviation, according to
25 said deviation.

2. The multi-channel head position controlling apparatus according to Claim 1, wherein said detecting section detects deviation between a reproducing level of said multi-linear
30 recording tracks at both ends of said tape-like recording medium and a reference level.

3. The multi-channel head position controlling apparatus according to Claim 2, wherein said displacement control section controls said supporting section so as to make said
5 supporting section tilt centered on unit recording heads located around a central portion amongst said unit recording heads forming said multi-channel head.

4. A method for controlling a position of a multi-channel head
10 comprising steps of:

constructing a multi-channel head including a plurality of unit recording heads arranged integrally with a predetermined spacing so as to have head gaps of said unit recording heads aligned with one another, said multi-channel
15 head forming a plurality of multi-linear recording tracks on a tape-like recording medium;

arranging said multi-channel head so as to contact with said tape-like recording medium upon forming an azimuth angle relative to the running direction of said tape-like
20 recording medium in which an alignment direction of said unit recording heads crosses said tape-like recording medium at a slant angle, and making said azimuth angle variable;

detecting a deviation between a reproducing level of a control record which is previously recorded on said multi-linear
25 recording tracks and a reference level; and

controlling displacement of said supporting section and varying said azimuth angle so as to minimize said deviation, according to said deviation.